

DERWENT- 2002-194407  
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TITLE: Molding **die** for molding glass has buffer layer inserted  
into the region between the substrate and the protection  
film

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PATENT-ASSIGNEE: IND TECHNOLOGY RES INST[INTEN]

PRIORITY-DATA: 1998TW-0115743 (September 22, 1998)

**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
TW 445242 A	July 11, 2001	N/A	024	C03B 011/08

**APPLICATION-DATA:**

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
TW 445242A	N/A	1998TW-0115743	September 22, 1998

INT-CL (IPC): C03B011/08

ABSTRACTED-PUB-NO: TW 445242A

**BASIC-ABSTRACT:**

NOVELTY - A molding **die** for molding glass comprises a protection film on a substrate. Protection film comprises **Ir-Re** alloy, Ir-Ru alloy which contains chromium nitride, tantalum nitride, other nitride or aluminum oxide. Substrate is tungsten carbide. A buffer layer can be inserted into the region between the substrate and the protection film to increase the adhesion between them.

USE - Glass molding **die**.

ADVANTAGE - Molding **die** has long life, good molding quality and wide molding temperature range. The molding **die** can be used more than 3000 times at 640 deg. C in molding applications and more than 2000 times at 700 deg. C, while the quality of molding product can still maintain an optical quality of roughness below 100 Angstrom . Since the range of molding temperature is wider, the selectivity of optical glass can be larger, which can be used in a broader optical design so that mass production is more feasible.

CHOSEN- Dwg.0/4

DRAWING:

TITLE-TERMS: **DIE** GLASS BUFFER LAYER INSERT REGION SUBSTRATE PROTECT  
FILM

DERWENT-CLASS: L01

CPI-CODES: L01-E06;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2002-060034